NSLS OHSAS Job Risk Assessment

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Name(s) of Risk Team Members: A. Ackerman, Q. Guo, Z. Liu	Point Value → Parameter ↓	1	2	3	4	5			
Job Title: Work with Lasers Job Number or Job Identifier: LS-JRA-0033	Frequency (B)	≤once/year	≤once/month	≤once/week	<pre><once pre="" shift<=""></once></pre>	>once/shift			
Job Description: This JRA evaluates general laser use at NSLS beamlines and laboratories. It covers use with Class II, Class IIIA, Class IIIB, and Class IV lasers.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability			
Training and Procedure List (Optional): Approved by: W. R. Casey Date: 9/16/05 Rev. #: 1 Revision Log	Likelihood (D)	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr			
Stressors (if applicable, please list all):	,	Reason for Re	evision (if applical	Comments:					

				fore	Co	ntro	ls		After Initial Controls							After Additional Controls			I	
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	erity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Using Class II laser for alignment or sample illumination	Temporary vision problem	N	1	3	1	3	9	Exp. review, training, laser registration, laser use permit, signs, beam stop, never use optical instrument to view laser, use lowest power practical	1	3	1	2	6							

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		Before Controls					ls		After Initial Controls						After Additional Controls					J
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Using Class IIIA laser for alignment or scattering experiment	Temporary vision problems, eye injury	N	1	3	1	3	9	Exp. review, training, laser registration, laser use permit, signs beam stop, never use optical instrument to view laser, use lowest power practical	1	3	1	2	6							
Using Class IIIB laser in experimental set up for scattering or spectroscopy	Eye injury	Z	1	3	3	3	27	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, beam stop	1	3	1	1	3							
Using Class IIIB laser in experimental set up for scattering or spectroscopy	Skin Burns	N	1	3	1	4	12	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, beam stop	1	3	1	2	6							
Using Class IV laser in experimental set up for scattering or spectroscopy	Eye injury	N	1	3	4	3	36	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, enclosed beam path, beam stop, interlocks	1	3	1	1	3							

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		Be	fore	Co	ntro		the NSLS ESH website.				nitia rols				After Additional Controls							
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Ris	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction		
Using Class IV laser in experimental set up for scattering or spectroscopy	Skin Burns	N	1	3	3	4	36	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, enclosed beam path, beam stop, interlocks	1	3	3	2	18									
Using Class IV laser in experimental set up for scattering or spectroscopy	Fire	N	1	3	2	3	18	Exp. review, training, fire detection, Tier I	1	3	1	2	6									
Servicing or	Electrocution	N	1	2	5	3	30	Exp. review, training,	1	2	2	2	8									
repairing	Burns	N	1	2	4	2	16	laser registration,	1	2	2	2	8									
Class IV laser	Eye injury	N	1	2	4	2	16	approved written procedures, protective eyewear, signs, beam stop, interlocks, work planning, NFPA 70E	1	2	2	2	8									
Further Description	on of Controls Added to	Red	luce	Ris	sk:																	
*Risk:	0 to 20 Negligible		1 to	40 ptal	ble			41 to 60 Moderate				80 stan	tial		31 or g							